

WHAT IS CLAIMED IS:

1. A method of monitoring the effect of in vivo administration of a cathepsin S inhibitor, said method comprising:
 - a) taking a blood sample of the subject treated;
 - b) measuring the accumulation of an intermediate degradation product of invariant chain (Ii) in said blood sample.
2. A method according to claim 1 comprising the steps of:
 - a) taking a blood sample of the subject treated;
 - b) purifying the white blood cells from said sample;
 - c) making whole cell lysates of the purified white blood cells;
 - d) analyzing the lysates for presence of an intermediate degradation product of invariant chain (Ii) by a suitable assay method.
3. A method according to claim 2 wherein the suitable assay method in step (d) is Western blotting or ELISA.
4. A method according to claim 1 wherein the intermediate degradation product of invariant chain (Ii) is the p10Ii fragment.